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Enter terms
Search

[Reset](#) Sort By: Relevancy (descending)

- [Relevancy \(ascending\)](#)
- [Title \(ascending\)](#)
- [Open Date \(descending\)](#)
- [Close Date \(descending\)](#)
- [Release Date \(descending\)](#)

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Displaying 21 - 30 of 672 results



[1. A11-139: Silicon Carbide based 28 VDC Distribution](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Ground/Sea Vehicles, ElectronicsACQUISITION PROGRAM: PEO Ground Combat SystemsOBJECTIVE: Design a 28VDC 16 channel silicon carbide (SiC) based power distribution box capable of operating across on all military ground vehicles. Using SiC materials; size, weight, and cooling requirements should be reduced while max current throughput is increased from silicon based designs.

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[2. N113-171: Long Range Laser Induced Plasma](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Sensors, WeaponsACQUISITION PROGRAM: Joint Non-Lethal Weapons Program; (ACAT IV)

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[3. N113-172: Innovative tie down](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date:
09-28-2011

TECHNOLOGY AREAS: Ground/Sea Vehicles, Materials/ProcessesACQUISITION PROGRAM:
NoneOBJECTIVE: Design and demonstrate an innovative tie-down that enables loading more
vehicles on amphibious ships, without modifying the ships or the vehicles.

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4. [N113-173: Desktop Software for First Order Approximations of the Effects of Blast and Ballistic Impact on Vehicles](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date:
09-28-2011

TECHNOLOGY AREAS: Ground/Sea Vehicles, Materials/Processes, Biomedical,
WeaponsACQUISITION PROGRAM: PM Advanced Amphibious Assault, ACAT I

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5. [N113-174: Encapsulation and Delivery of Non-Lethal Malodorant in a 40mm-munition or Hand-thrown Grenade](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date:
09-28-2011

TECHNOLOGY AREAS: WeaponsACQUISITION PROGRAM: Joint Non-Lethal Weapons Program;
(ACAT IV)

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6. [N113-175: Optical Perception System for Situational Awareness and Contact Detection for Unmanned Surface Vessels](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date:
09-28-2011

TECHNOLOGY AREAS: SensorsACQUISITION PROGRAM: PMS 406 Unmanned Influence Sweep
System Program of Record - ACAT IIIOBJECTIVE: To develop an optical perception system for
unmanned surface vessels (USVs) to support the lookout function as defined by COMDTINST
M16672.2D, "Navigation Rules" Rule 5.Transition Path: Littoral Combat Ship (LCS) Mine
Warfare Mission Package: Unmanned Influence Sweep System (UISS) and other Navy USVs
under PEO LMW PMS420 Unmanned Maritime Systems Program Office

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7. [N113-176: Multi-Target High Probability of Kill Weapons Engagement](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date:
09-28-2011

TECHNOLOGY AREAS: Information Systems, Sensors, WeaponsACQUISITION PROGRAM:
Undersea Defensive Warfare Systems Program Office (PMS 415). ACAT III

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8. [N113-177: Battery Management, Monitoring and Diagnostic Device for Navy Energy Storage Modules](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date:
09-28-2011

TECHNOLOGY AREAS: Ground/Sea Vehicles, ElectronicsACQUISITION PROGRAM: PMS 320,
Electric Ships OfficeOBJECTIVE: Develop a battery energy, storage management/electrical
safety device to ensure correct operation, prevention of abusive conditions and storage
system condition awareness pertaining to large rechargeable energy storage systems.

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9. [N113-178: Investigate Alternate Sealant Materials for Countersunk Fasteners Head and Hole Cavities on Exterior of Submarines](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date:
09-28-2011

TECHNOLOGY AREAS: Materials/ProcessesACQUISITION PROGRAM: PMS 392 IN-SERVICE
STRATEGIC AND ATTACK SUBMARINES AND NEW CONSTRUCTION.OBJECTIVE: To develop a
sealant, equivalent to the existing PR-944F polysulfide material, to fill and fair-in the fastener
head and cavities on submarine exterior hulls in order to level the surface and protect the
fasteners from seawater. The sealant must be significantly easier to remove than PR-944F
without increasing installation and cure times.

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10. [N113-179: Automated Radio Frequency \(RF\) Spectrum Management for Wideband Electronic Warfare \(EW\) Systems](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date:
09-28-2011

TECHNOLOGY AREAS: SensorsACQUISITION PROGRAM: PMS-450 Virginia Class (ACAT I)

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- [First](#)
- [Previous](#)

- [1](#)
- [2](#)
- [3](#)
- [4](#)
- [5](#)
- [6](#)
- [7](#)
- [8](#)
- [9](#)
- ...
- [Next](#)
- [Last](#)

```
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```